

FIG. 1A

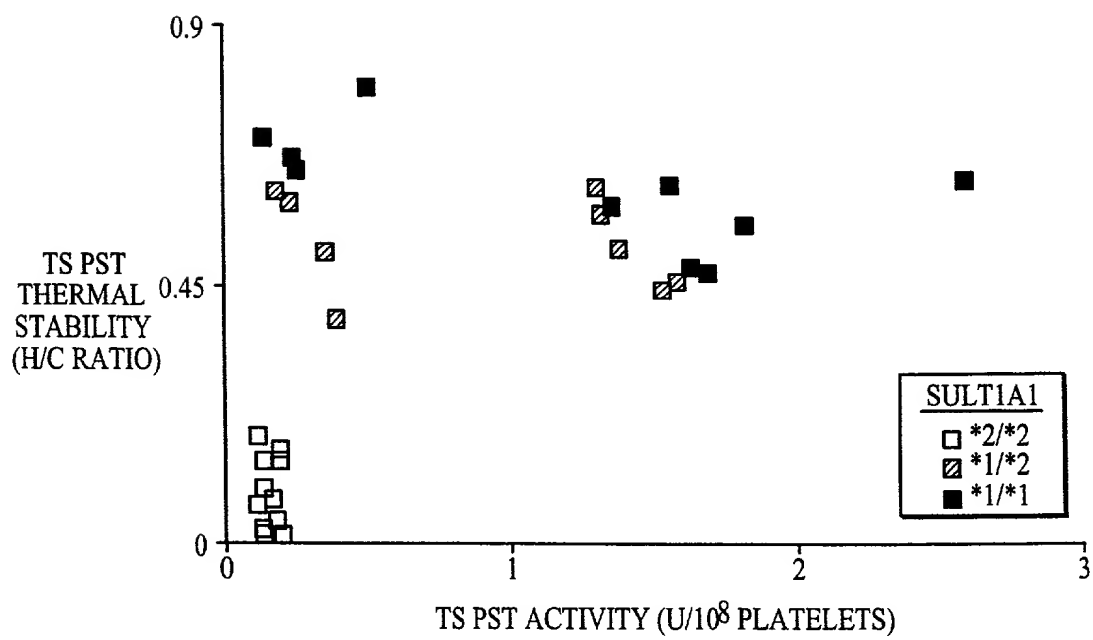


FIG. 1B

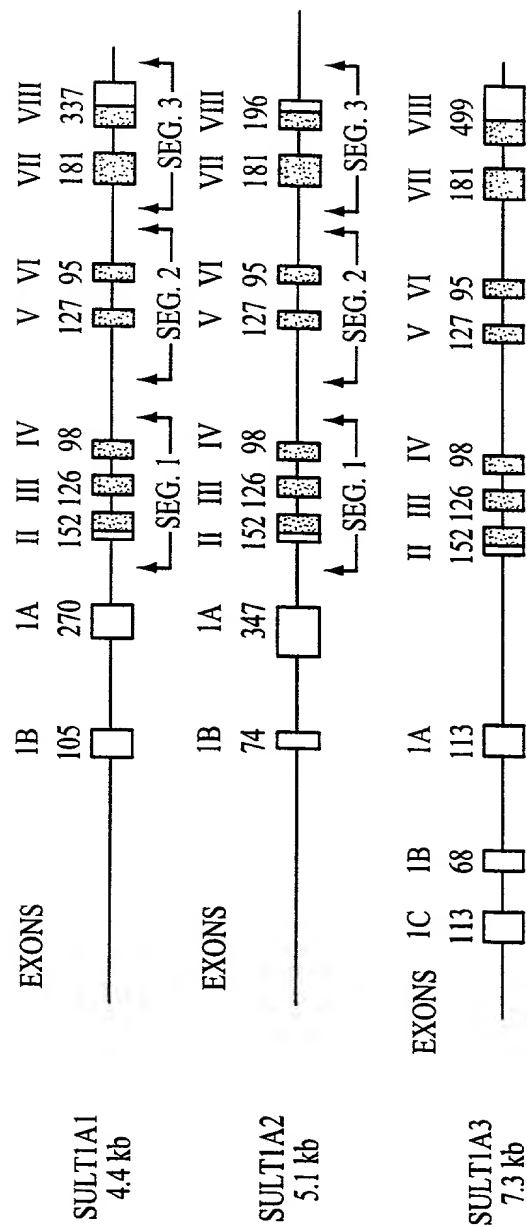


FIG. 2

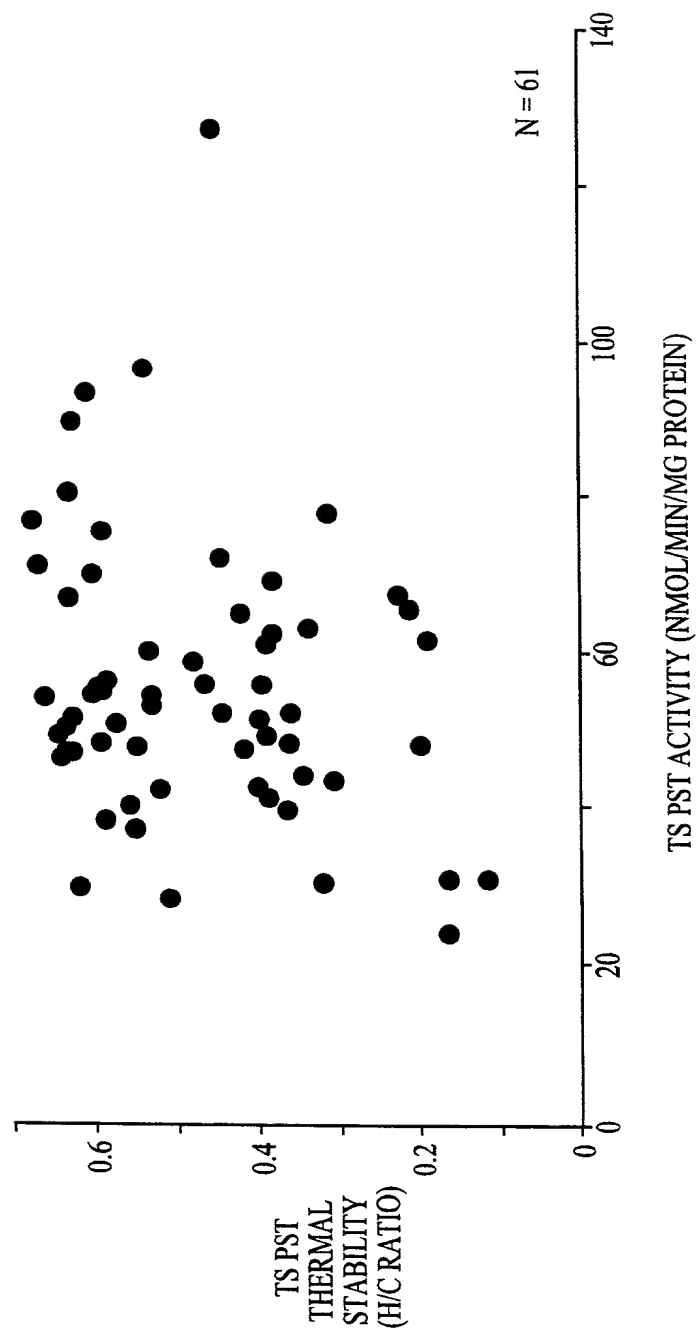


FIG. 3

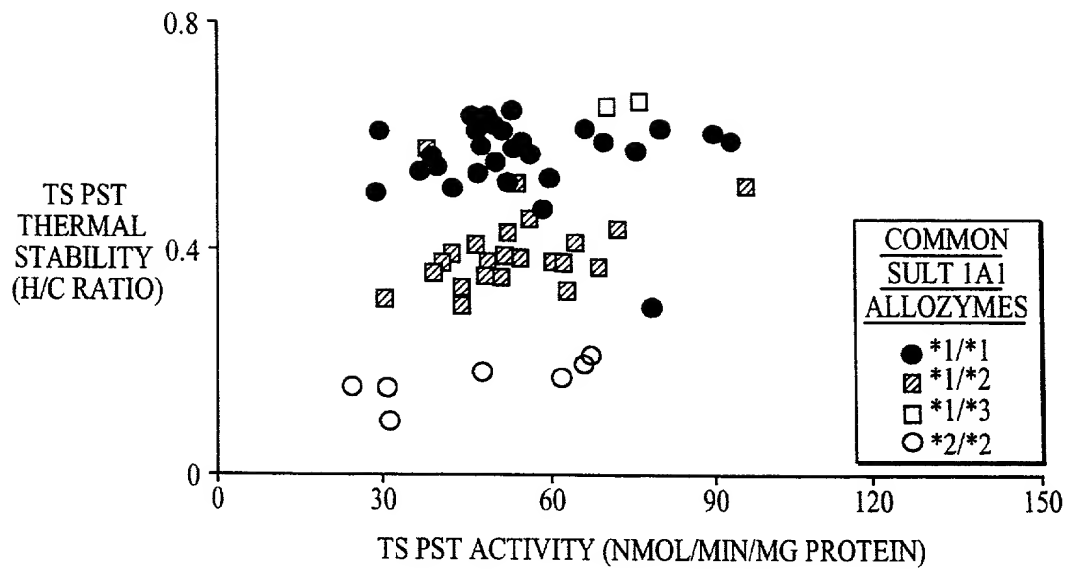


FIG. 4A

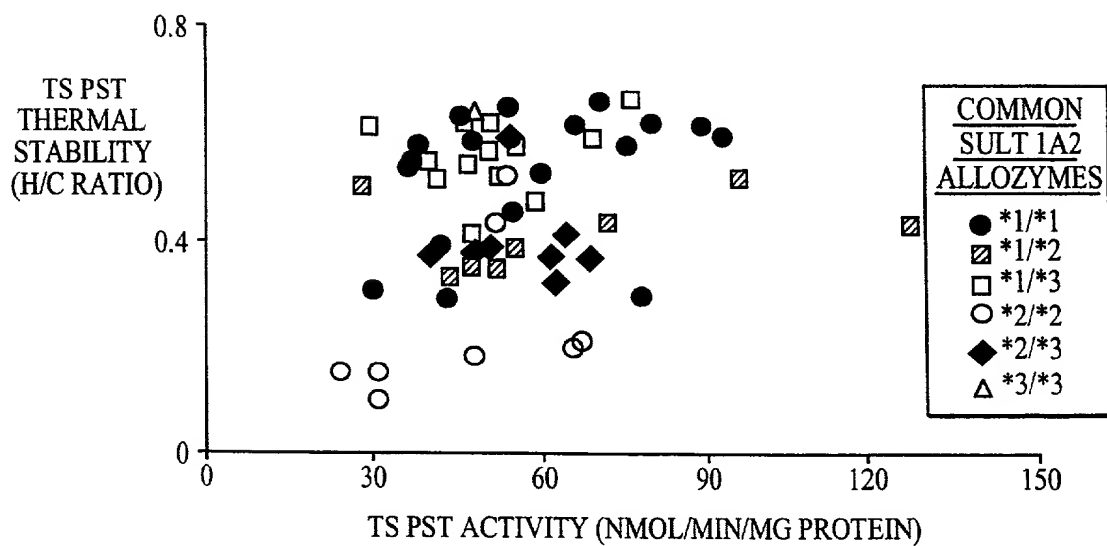


FIG. 4B

101 ttgtgtgcaag ctgactctcc ctactgtct ctactgccc ttgtgctgg gacagatga agggggccc ttgtgtgccc ccaacccctgg ctgttggcta  
 201 agagcccaag tgatctgccc ttactccgg aagaacagg gacgtttctg cccctagagg gcaatgccc tagctgagtg cagtccccc  
 301 gcccagcct ggtccagctt tgggaaggg gtgccaatcca ggcggggga ggcgtgccc ttacttggta ttoagggctg agcctggagg  
 401 ggggttggta tgcctgactc tggctgactc tggctgactc tggctgactc tggctgactc tggctgactc tggctgactc tggctgactc  
 501 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 601 cctcgtttct gaggacacac tggatagccc tggctgagct cagtgtccc aatcccccac tggctgagctc gtttccctct tggctgagctc gtttccctct  
 701 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 801 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 901 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1001 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1101 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1201 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1301 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
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 1701 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1801 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 1901 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2001 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2101 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2201 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2301 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2401 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg  
 2501 gacatgggga aatagtggaa gactggaaat tagaagaagt gactgggctt tggcccccag ctccctacc agatctggt ggcctagggg agtcaatca aacccgggtg

FIG. 5A

2601	ccggttccaa atccctccaa cagtggcct aggaacccct cagctcagag aacacccctg catctccac acagacacca caatcaccca ctgcggcgga	EXON IB
2701	ggagggcagc agccagagct cccagagct cagtgagtg aacagtgga agggccaaag gggccctaa cctgctcag cctgctcag cctgctcag	
2801	aagctgagc cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
2901	ttttcccg gggagggcga ggtcttgctg tccacaggg cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3001	tgccacagc cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3101	atgctgacc aggttggtt ccaactcctg cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3201	cacagagtt ttgttcatt cccacagcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3301	agccagggc atccagggc tggctggct cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	EXON IA
3401	gtccccagc gaatgggtg gacaaaggc cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3501	cttcacagc cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3601	tgaaagtg ggcagggctg ggcacacac cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
3701	ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc ctgagctcc	
3801	ccaggaaca tggagctgat ccagagacc cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	EXON II
3901	q s f q a r p d d l l i s t y p k s g	
4001	cacttgcc agcaggtcg tggctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	EXON III
4101	aggggggga cctggagag tctcacag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4201	tgctgggtg aagggggtg gaggagaga ggggtgggg tggctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	EXON IV
4301	cgccccacg actcctgag acacacg cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4401	ccataatcc agcacttg gagggtg cagggag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4501	aaatacaga ttagcgggt ggtggtg cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4601	ggtgagcag agatccac attgctcc agcctgag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4701	tgccacgtg ggtggtcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4801	ggggaactc catctata aaatgcaa atctgag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag cctgctcag	
4901	tgagcctgg agtcaagt ataatgat aaataaat aaataaat aaataaat aaataaat aaataaat aaataaat aaataaat	
5001	gagattgtt caataata cctggtga ggcagctt ggtctgtt ttctggaa gtcgctcag cctgctcag cctgctcag cctgctcag	
5101	tgtaataca gggagggg cctggtga ggcagctt ggtctgtt ttctggaa gtcgctcag cctgctcag cctgctcag cctgctcag	
5201	gggagctgt tggctctg cctggtga ggcagctt ggtctgtt ttctggaa gtcgctcag cctgctcag cctgctcag cctgctcag	
5301	ggtgggggt ggtacagg tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag	
5401	gaccagcag gactttggt ttgagcag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag tgggtgag	

FIG. 5B

EXON V

5501 ctcctttgac aatocaaag atgagctgga ctggggaggg ctgtgtggtg atgtgtgtg ggttgagttot tatgccccg cagctgtctt ATGTTGCCCG  
 5601 CAACGCCAAG GATGTGGCAG TTTCCTACTA CCACCTCTAC CACATGGCCA AGGTGCACCC TGAGCCTGGG ACCTGGGACA GCTTCCTGGA GAAGTTTCATG  
 5701 N A K D V A V S Y Y H F Y H H A K Y H P E P G T W D S F L E K F M  
 GTCGGAGAAG gtgggtttga tgggaggaag gaaagtgtgg agccagagggg tgtgtgtgtac aacgcacagc aacotgtgtg tgggaacoot tgcotgttto  
 W G E Y

EXON VI

5801 tccagTGTCC TACGGATCCT GGTACACGCA CGTGCAGGAG TGTGGGAGC TGAGCCGCAC CCACCTCTTT CTCACCTCTT TCTATGAAGA CATGAAGGAG  
 S Y G S W Y Q H Y Q E W W E L S R T H P Y L Y L F Y E D M K E  
 5901 gtgagccac ctgtgaagct tccctccatg tgacacctgg gggccgggac ctacacagga cccacaggg toaccagcc cccctccctg gcagccccca  
 6001 cagcagggcc ggtatcccca tccctgacct ttggccnagg cctcccgct acagggccca cctggcaggg ggcacacac ggtctccatc accacacatc  
 6101 ggtcagctg catggggggc cagggatcag aaacttagt ctattgtac tccctgcca aggtgtgccc acccagggcc acagtcattg aagaagacca  
 6201 tcaogtccct caccataggg agccaagpcc agctcatgat gggatccacg ggcagacagc aattctttt accccggga ctggggccct gggggttgag  
 6301 ggttggctc tgcaggtct ctaggaggg tggccagatc gctctgag tttagaggg ggcaccttt tacttttcc gataagcaa tccgagccctc  
 6401 caactggagg cccctctgctg ctccgTACCC CAAAAGGAG ATTCAAGA TCTGGAGTT TGTGGGCAC TCCCTGCCAG AGGAGACCTT GGACTTCATG  
 N P K R E I Q K I L E F Y G H S L P E E T Y D F M

EXON VII

6501 GTTCAGCACA GGTGCTTCAA GGAGATGAAG AAGAACCCTA TGACCACTA CACCACCGTC CCCAGGAGT TCATGGACCA CAGCATCTCC CCCTTCATGA  
 V Q H T S F K E M K K N P M T N Y T Y P Q E F M D H S I S P F M R  
 6601 GGAAGgtgg gtgtgggcca gtacgggggt ttgggggggg tgggagagc agotgcagcc tcccatagg cactggggg cctccctggg atgagactcc  
 K G

EXON VIII

6701 agcctgtct cctgpcctcc ccccccagTC ATGGCTGGGG ACTGGAGAGC CACCTTCACC GTGGCCGAGA ATGAGCGCTT CGATCGGAC TATGCGGAGA  
 M A G D W K T T F T V A Q N E R F D A D Y A E K  
 6801 AGATGGCAGG CTGCAGCCTC AGCTTCCGCT CTGAGCTGTG AGAGGGCTC CTGGGCTCAC TGACAGAGGA GTGTGCGAAT CAAACCTGAC CAAGCGGCTC  
 M A G C S L S F R S E L  
 6901 AAGAATAAAA TATGAATTGA GGGCCTGGGA CGGTAGTCA TGTCTGTAAAT CCCAGCAATT TGGAGGCTGA GGTGGGAGGA TCATTGAGC CCAGGAGTTC  
 7001 GAGACCAACC TGGGCAACAT AGTGAGATTC TGTAAAAA ATAAATAAA ATAAACCAA TTTTAAAA gagataaaa tatgatttg ggcaggcat  
 7101 agtgggctat g 7152

FIG. 5C

-3729 ctctccctcc ttgtctctta cctgcctgct gctgaggaca ggtgaaagcg gggcccttgt gtgccccaa cctggctgtg tggctaagag ccacgtgtg  
-3629 ctgccttgtg gaggagtcc ttccggaaga accagggagc cttctgccc tagagggcca ttgccttago tgaatgagc cccccggcc cagcttgtc  
-3529 cagctttggg aagaggtgc ccagtttgt ccagcagcc aatcagggc gggcagggc tgtctgtatc ttggtattca ttgtagggg tttgtgatgc  
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-3329 gtggaagact cggaaattaga agcgtgagc ggcctttggc cccagctcc ctacccact cccgtctctg cccgtctgtg gacaaacct gttctgtcag  
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-3129 cctgtttcca cgtttctgt tgtttttt tttttttt tttttttt ggccttctct ggccttctct ggccttctct ggccttctct ggccttctct  
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-2929 agtagagaca agttttctcc atgttgttcc ggttgttcc aaactccga cctccagct cctccagct cctccagct cctccagct cctccagct  
-2829 gtgagccacc gtgcccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc  
-2729 ggttaaggg actccctgaa gaagaggaac gtaggggccc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc ttctccagcc  
-2629 aaagaggggt atattctatg aggtccagc aaaggttaa gatttttcaa gactgtgtg ccacaaata caggtgttcc tggagcctg  
-2529 ttggaactgg tgggtgtaag gtttctatg ttactgattg taactgagc ttggtgttcc gactgtgtg aaactacatc aactgtgtg tctgtgtgt  
-2429 cgaagccagc ttgttctca tctattttt caggaactta ttggtgttcc gactgtgtg aaactacatc aactgtgtg tctgtgtgt  
-2329 cctgggtatt ttgttgtct tctaggaact ttggtgttcc gactgtgtg aaactacatc aactgtgtg tctgtgtgt  
-2229 caatacaag tctagtcac gagggtccc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc tgaaggttgc  
-2129 cacagaggag gtagggggg cctgtggccc tagcagggga gtagggggg gtagggggg gtagggggg gtagggggg gtagggggg gtagggggg  
-2029 acgcaacct ggaaggctt ggaagactca ccttactca gtaggtgtt tactgtctc gtaggtgtt tactgtctc gtaggtgtt tactgtctc gtaggtgtt  
-1929 gaacgaggag ggtggggga tgcactcctt ccacggggg cgtgtgttcc caagcttcc cctctctg tctctctg tctctctg tctctctg tctctctg  
-1829 tggaaagaaa agtaacctgc aggggtgtg gttctctat gttctctat gttctctat gttctctat gttctctat gttctctat gttctctat gttctctat  
-1729 gggcaatggg actgcagtgt cctgtgttct tctgtgttct tctgtgttct tctgtgttct tctgtgttct tctgtgttct tctgtgttct tctgtgttct  
-1629 ctggccttgt ggtcagagcc tggagtgcat ggtgtgtg aggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg  
-1529 caggtagggt accttccag ggcctgcta tccagctt tccagctt tccagctt tccagctt tccagctt tccagctt tccagctt tccagctt tccagctt  
-1429 tcaagggcag gtcaggagcc cagtgcagc tcaaaaaa aaaaaaaa accattggc ccttccct tctctctc tctctctc tctctctc tctctctc  
-1329 acaccaaac cagtcgtggt tttggagat acttaagc tgtctccag tggcaacta aggagggtaa tagagaagc cccccccc caacctacc

FIG. 6A



-1229	cotctotcttcc ggaagcaaat ctaagtccaag ccccggtctcc agatctctctcc caactctgacc taagaaacccc toagracacaga caacaccccc	GCATTCCCA	EXON IB
-1129	CACAACACCC ACACTCAGCC ACTGCGGGCG AGGAGGGCAC GAGGCCAGGT TCCCAAGAGC TCAGTgtgagt gacacacagg aatggccccag gaagccctca		
-1029	ccctgtccag ctgtgtggtc caacattcca gaagccagg cotctgttat ctctgcccctc tocccattga tatcccattt cagacaacccc cggccggcct		
-929	gaatccccct ccttctcttt ttttttttcc ggggaggcca ggtctgtgtg toacaggagc tggagtgtgtg tgggatactg gcaactgcaag ccttgatcc		
-829	ctgggtccaa gtagttctcc tgcctcagta gtaggacta cagaccccca ccatcctgac tggatgtgtt taasaaatat ttttaagaga tttttagaga		
-729	tggggtotto caatgtgccc cagattggtc tocaattct ggcctcagcc toactaggtt ctgggattac aggtgggagc caacctgccc aggtactctcc		
-629	ttttgtgag tcatcaacgt ttgtctcatt cccacatccag gctctggccc caataccag ctaagtgtgt caatgggtct TTTGTCTTGG AACCCAGATG		EXON IA
-529	GACTGTGGCC GGGCAAGTGG ATCAGAGGCC TGGCCAGCCT AGGAGTTGCC ACATGTGAGG GGCGBAGGG CTCAAGGAGG GGAACATCGG GGAGAGGAGC		
-429	CTACTGGGTG GAGGCTGGGG GTCCCGAGCAG GAAATGCTGA GACAAAGGC GCTGGCTGGC AGGAAGACAG CACAGGAAGG TCCTAGAGGT TCCTCAGTGC		
-329	AGCTGGAATC TCCTGGAGAC CTTTCAACAC CTTGACATCT GGGCCCGCCTT CCACGAGGGT GCTTTCATCTG GTCTGCACCA TGGCCCAAGC CCTGGGATTT		
-229	TGAACAGCTC GGCAGGTGAA TGAAGgtga ggcagggtg ggcaccccac acattagaa cgaactgtgt tttcagcccc agccccgcca ctgactggcc		
-129	ttgtgagtgc ggggaagtoa ctoaacctcc ctagggtcca gtgacttccc tgaaggaag aattccaatt tcttgctgtt gtgatgtgtg taagggaacg		
-29	ggcctgggtc tggccctga cgaagGAACA TGGAGTGTAT CCAGGACATC TCTGCCGSC CACTGGAGTA CGTGAAGGGG GTCCCGCTCA TCAAGTACTT		EXON II
72	TGCABAGGCA CTGGGGCCC TGCAGAGCTT CCAGGCCCGG CCTGATGACC TGCTCATCAG CACTACCCC AAGTCCGgtta ggtgaggagg ggcaccccc		
172	A E A L G P L Q S F Q A R P D D L L I S T Y P K S G	ccatctctct cctctccctct ccactccctct ccactccctct ccactccctct ccactccctct ccactccctct ccactccctct ccactccctct	EXON III
272	CCAGATTCTG GACATGATCT ACCAGGGCGG TGACCTGGAA AAGTGTGACC GAGCTCCCAT CTTCATGCGG GTGCGCTTCC TTGAGTCAA AGTCCCAAGG		
372	Q I L D M I Y Q G G D L E K C H R A P I F M R Y P F L E F K Y P G	ctcagccctcag gtgtgtgtgt cctgggtgca aggggagtgy aggaagcag ggtggggt toagctcacc agacctccc tgaacctg ctcagccatg	EXON IV
472	E T L K N T P A P R L L K T H L P L A L L P Q T L L D Q K V K	CTCTGTGGA TCAGAGGTC AAGTgagac	

FIG. 6B

572	tgggcaagt ggttcaacc cgaatatca gtaattggg aggtgaggt gggaaagatcc attgaagcca gaagttoag ataagtctct tccaaaaaa	
672	aaactagct gtgaatagtg gtgtgtgct gtaataaccg ttactcagga ggttgaggtg ggaagatcat ctgagccctag gagtttaagg ttacagcgag	
772	ctatgatcac accagtgac tocaggctgg gtgacagaga aacatgtct caaaaaaga tgaatgaaa ggtgtgccc caagtgcgtt ggctcacacc	
872	tgaattcca gaattgaag aggtgagga aggtgagga cctgagcta ggaattgag atcagctgg caacatggc aaaccccat ctctactaaa	
972	aatacaaaa aattagccgg gaattgtgga aggaatctgt aatccagct actgggaggt ctgaagagg agaattgctt gaagtggga ggcagaggtt	
1072	gtagtoagc gagaactcac cattgaacc cagcctggga acaagaga aactctgtc toaaaaaaa agaaaaaaa taataaagcg gcaggtggca	
1172	gggggtggg cctgtgttg ctaacgctg taatacagc acttggag gtgaggttg gaagatcac caaggttagg agtttagat cagctcggcc	
1272	aaatggga aacccgtct ctactaaaa taaaaaatt agccaggct tggggcagg gccagtaato ccagctactc gggaggtga ggaaggagaa	
1372	tagcttgac ctgggaggog gtggttgag tgagccgaga ttgtgcaat gtaotcagc otgggagaca caacgagaca ttgttccaaa caaaacaaat	
1472	aaatattta aaaggtttgc cactgggtg gtaacaggt gtaatgocag catittggga ggtggaocgo ttgagctcag gagtccocga	
1572	ccagcccaag aacatgggg agatccatc agatccatc totataaag atgaatataa toagcagggc atgttggaat agcgtatag toccagctac toaaagtct	
1672	aggttgag gattgttga gctggagg toacgttgg gactagatg toactoca gtgaactoca aactgggcaa aactgggaaa gaaagcccaa	
1772	ggtcttttt cttttttc tttttttg gactagatg ccccccgc ctttgtctt gttctctgg gaggctgoc toactctc cagacttgc tcatottoca	
1872	gpaatgtgaa toagggag gaggcccg gactagatg ccccccgc ctttgtctt gttctctgg gaggctgoc toactctc cagacttgc tcatottoca	
1972	cgggggggac tgtctgctt ttgtctgtg gaccatac atgagactct tooggttaga ctaagaag gttaggggtg ggtcctaca gacccaaaa	
2072	atttgtgtt ggtgggaaa tgcctgttg agatgctt gctccagatc ggggtgtgac gaattgatg agattatatt actatagaat atgtgtgtct	
2172	caggagccag gcaggacttt ggtttttgag cagggttcag atcctgactt ggcctactct gtgcctgag atotcaaaa agtoagccto taagcctcag	
2272	cttctctctt tgccaaaaa agagatgagc tggcctgggg caggctgtgt ggtgatggtg gtctttgtga gtctttgtgc cctgcaggtg GTCTATGTTG	EXON V
2372	CCGCAACGC AAAGGATGTG GCGGTTTCCT ACTACCACTT CTACCACTG GCCAAGTGT ACCCTCACCC TGGGACCTGG GAAAGCTTCC TGGAGAGT	
2472	CATGGCTGGA GAAGTGGG ttgatggag gaaggaagt gtgagctaa ggggtgttg ctacaagca cagcaacct gtgtggcac cccctgccc	
2572	ttctccagT GTCCTATGGG TCCTGGTACC AGCAGGTGCA AGAGTGGTGG GAGCTGAGCC GCACCCACCC TGTTCTCTAC CTCTCTATG AAGACATGAA	EXON VI
2672	GGAGTgaga ccgccttga tgcctccto oacgtgacac ctggggggcag gcaottoaca gggacotgoc aagggccccc agccacccto cctggggcggg	

FIG. 6C

1 acctctgcct cctgggtcca agcaatccct cttccctcacc ctccagagta gctgggatta  
 61 caccgcgcctg ccaccgcgcc tggcctaatt ttgtatatt tagtagagat ggggggttcc  
 121 aaccatgttg gccaggctgg tctccaaact cctgacctca ggtgatcctg ccacctaag  
 181 cctcccaaaa tgctggtatt acaggcatga gccaccgtgc ccggcctaaa taattaataa  
 241 aataatggac gatgggtgcc ttctactgag ctcccggtaa ttgtgagtga gtagaggact  
 301 tgccctgggg acattcagtg acctgctggg tgttctgag ctgtgaggaa gttcaggctt  
 361 ggctgcagtg gtgaggctgt gactcaatca atcactgctg atgctcccag gacctgcacc  
 421 agcttagtcc taggggcaag gattttaact gtccacctca gttcttcat ttgtaagatg  
 481 caaataacag tcacccctgc ctcatgggat ggagctgtgt aatgcccgca acagtgcctg  
 541 ctgcatagag ggggtgctgc cagctgcctc tccctccttg tctcttacct gctgctgcc  
 601 tgggtcagga tgaagacggg ccttgtgtt gccccaccc tggctgcctg ctaaggggcc  
 661 atgtgatctg cctggcagag gagtttcttc aggaagaacc agggcagctt ctgccccag  
 721 agggccaatg cccttgtga gtgcagctcc ctggccccag cctgggtccac ctctgggaag  
 781 aggggtgccc gttgtgcaat ccaggcccag gcagctgagc cctcatctca gcatgcaggg  
 841 cggatactgg agggggcttg tggcatctga ctctgtatct cctacctgcc cctctccttg  
 901 ctactgtgga gaagtcactg ctttggggag acctgatctg gctgtgccag atggacactg  
 961 agaaagaagt agaagactca gaattagaag aggtgagtgg gcttgggtgg cgggctcct  
 1021 accccactcc ctgcccctggg ctgcccgtga ccacactgct tgccctctgca ggcacactgg  
 1081 acagacctgc tggagacctg atcctcagtg tcttaccct ctcctacctc tttctgtgc  
 1141 cactgtctgt ggggtccagca ggtttttact tgagtacaat aaaaagtctg agtcaagggt  
 1201 gccttatggg ggatgctgag gggagggggc gagctagtag cccaaggctc tgccagtcac  
 1261 ggggtctctc caggggcaca gaggaggcag gaggggcccc tggccctagc acgtgaacag  
 1321 cttcactctt gcttggaaac cccatgcctc agctttcccc tacttgctc tgagctcatg  
 1381 caattcttgg aagcctggga gacttacctt gaaattgaat gcaaatagga caaagaccaa  
 1441 ggaggatggg gggatgccct ccttccacgg ggcctgtgg cttccaagtc ttaattctct  
 1501 ctactctctt gtctacggag cctccttcaa acccagggaag agaaaagcac ctgcccagggt  
 1561 tgtttttctt ctaggatctt ctattgatgc tctgtgaggt cccccaggag ccatgaagct  
 1621 agggctggct cctagggcaa tgggactaca gtgtcctgt cctttcttat tctttctgtt  
 1681 ctttctttct tcttcttttt ttttttttt tttttttgag acagagtctc actctgtgc  
 1741 cttcagctgga gtgcagtggt gtgatcttgg ctactgaaa cctccgctc ctgggttcaa  
 1801 gtgattctct tgccctcagcc tccctgagtag ctaggattac aggtgccgc catcatgcc  
 1861 agctaatttt tgtattttta gtagagacag ggtttacca tgttgccag cttggtctcg  
 1921 aactcctgac ctcaggtgat cctgctgcat cgacctccca aagtactggg attacaggcg  
 1981 tgagccacca cgtcagcct ctttcttgtt ctatatgtcc atgctctgct ccactctgc  
 2041 cccttcactc tgccccacac atcactccag actggccttg tggctcagagc ctggaatgcc  
 2101 tgggctgctg ggggcctgtg gactgcactg ggcagaaacc cctgcgctc tcaagactgg  
 2161 cctgtagcca gcaggtagg gacttttccc aggcggcct atcccacct tccccccac  
 2221 tactcacct cccttgctg ggtcaattag agaaagcttg tcggccaggc atgggtggctc  
 2281 atgctgttaa tctcagcact ttgggaggcc gaggcggcg gatcatctga gctcaggagt  
 2341 ttgagaccag cctggccaac atggcaaac ccgtctcta ctaaaaatac aaaaattaac  
 2401 cggatgtggg ggtgtgcacc tgtaatccca gctactcggg aggctgaggc agaagaatcg  
 2461 cttgaaccca ggagggggag gttacagtga gcggagatcg tgctactgca ttgcagcctg  
 2521 ggcgagagag caggtctcca tctcacataa aaaaagaaa aagaagaaa gcaagcttgt  
 2581 cgttggtgct gccctgcagg gtggagttca gaggaagggt caggagccta gtgacagctc  
 2641 aaaaaaaaaa aaacccaaat accaatgttg gccccttttg cctttcatte atgtgttttc  
 2701 tataactaa actcacatat tgggtttgca gatcactcca agcttggctg gagctgtggg  
 2761 ggtaaggagg gtaatagaga agcttcccca cctcaaccc cacccttcc ttctggagt  
 2821 tcccagccct gacttttagat cctcccaaca ctggacctc aaaacctca gggcagagag  
 2881 cagccctaca ctccctacac cacaccata ctacgcccct gcaggcaagg agagaacagg  
 2941 tcaagttccc caaagctcaq gtgagtgaac cgttggaaat gccagggca ccttcacct  
 3001 gctcagcttg tggctccaac attctagaag ccgaggcctc tgccatccct gcccttcc  
 3061 atggaatttc catttcaatt agacaaccca gctcgccgg aacccccctg gttccttct  
 3121 tttcctttgt gtatttttga gacagggtgt tgctccgtca cccaggtgg agtgtagtgg  
 3181 gatcctggcc cactgcagcc tcaattcct aggtgaggc aatcctgcc cctcagcctc

FIG. 7A

3241 ctgagtagct ggggttacaa gagcaagcca ccacaccag ctaattttga aaaatatattt:  
3301 ttgtagagga gaggtcttgc tttgttgtcc aggttgggtc caaactccag ggctcaaggg  
3361 atcccttccc gttggcctcc caaggctctg ggattacagg cgggagtcac cctgcctggy  
3421 cccctccctt tgatgagtca tcagttttca tccccgcacg aggetctagc cctggttacc  
3481 agcttaggtt ctcaatgggc tgtgtttgtt ctggagccca gatggactgt ggccaggcaa  
3541 gtggatcaca gacctggcgg gcctgggagg tttccacatg tgaggggcat gaggggggct  
3601 caaggagggg agcatcgggg agaggagcgc actgggtgga ggctgggggt cccagcagga  
3661 aatggtgaga caaaggcgcg tggctggcag ggagacagca caggcaggcc cttagagcttc  
3721 ctcagcacag ctggactctc ctggagacct tcacacaccc tgatatctgg gccccgcgct  
3781 acgaggggtg tttcactggg ctgcactatg cccaggccc tgsgattttg aacagctctg  
3841 caggtgactg aaagggtgcgg ccaggctggg gaacgacctg gtttcagccc cagccccgcc  
3901 actgactgac tttgtgagtg cgggcaagtc actcagcctc cctaggcctc agtgacttcc  
3961 ctgaaagcaa aaactctgca aaggggcagc tgggtgctgg ctcacacctg taatcccagc  
4021 actttgggag gctgaggtag acaaatcact tgaggccagg agttctagac cagcctgggc  
4081 aacatgggta aaccccatct ctactaaaga aaaaaaaaaa ttagctgagc atggttgta  
4141 atgcttgtaa tcccagctac ttgggatgcc gaggcgggag gattgcttga acccaagagg  
4201 tggagtttgc agtgagctga gattgtgcca cactgcactc cagcttgggt gagagtgaga  
4261 ctccatctca aaaaaaaaaa aaaaaagaga gaatcccact ttcttgctgt: tgtgatggtg  
4321 gtaagggaaac gggcctggct ctggcccttg atgcaggaac atggagctga tccaggacac  
4381 ctccccgccg cactggagt acgtgaaggg ggctccgctc atcaagtact tgcagagggc  
4441 actggggccc ctgcagagct tccaagcccg acctgatgac ctgctcatca acacctaccc  
4501 caagtctggt aagtgaggag ggcacccac cctctcccag gggcagtc ccccttgggt  
4561 cagcaagggt gtgcctcag cctgctcacc tctatctcc ctccctctcc acgaccacc  
4621 tgggtgagcc agatactgga catgatctac cagggcggcg acctagagaa gtgtaaccgg  
4681 gctcccatct acgtacgggt gcccttccct gaggtcaatg atccagggga accctcaggt  
4741 gcatggctgg gtcctggggg taagggaagt ggaggaagac agggctgggg ctccatctca  
4801 ccagaccttc cctgacccac tactcagggc tggagactct gaaagacaca ccgccccac  
4861 ggtcctcaca gtcacacctg cccctggctc tctccctca gactctgttg gatcagaagg  
4921 tcaacgtgag gccgggtca atggttcaca cctgtcatcc cagtttyaga ctgaggaggg  
4981 aggatccctt gaaggcgaga gatggagacc agcctgggca acattgtgt agagatgaca  
5041 tcccatctct acaaaaaata aattaacaac ctggtatggt ggcatagact gttcccagtt  
5101 acttaggagg ctacgcgggg aggactgttt atgcaaatag gaagctgcaa tgagccctga  
5161 tgatcctgct gctgcactcc agcctgggca acacagcaaa accatctcta cgaaaaaaa  
5221 agttccact gactggcaag gaaagccagg aagggggggt cagggtgcct cagccatg  
5281 tactgttct tctggaagg cctcctgctc tctgccaggc tcatcacatc ttttttttt  
5341 ttgagacaga gtctgtctc gtcaccctgg ctggagtga gtggcatgat ctacgtcac  
5401 tgcaacctcc gccctcccag ttcaagtgt tctcctgct cagcctcctg agtagctggg  
5461 attacagctg tctgttacca caccggcta atttttgtat tctttttagt agagacgggg  
5521 tttcaccatg ttggtaagt ggatctcaaa ctcttgacct tgtgatcctc ctgctcgac  
5581 ctcaaaagt gctggaatta caggcgtgag ccaccgcgcc tggccctttt tttttttgag  
5641 acagtttcac tctgtttgcc gaggctagag cgcaatcgtg tgatctcggt tcatgcaac  
5701 caccgcctcc tgggttcaag caattctcct gcttcagcct cccaaggagc tgggattaca  
5761 ggtacctgcc accacgccc gctaattttg tatttttagt agagatgggg tttcaccatg  
5821 ttggtcaggc tgggtcttga cctctgacct cagggtgatc ggcaccttg cctcccaaag  
5881 tgccgggatt agaggcatga gccaccacgc ccagccttca tcacatcttg agagagga  
5941 ctgtctgctt cttgtcttga tgagggtctg atgcaaagga tagtgagtct ctacagtga  
6001 cacttaagaa aggcagcatg tgggtgctca caggtcaggc ggaggagggg gagggtggtg  
6061 ggaccaggca tgccttgctc cagatcagga tatgatggca ttggtgcaga tbatattagt  
6121 atagaatatg gtctcaggaa ccaggcagga ctttggcttc cgagcagggt tcagatccca  
6181 gcttggccct acctgtgcag tgagatctca agcaagtcag cctctaagcc tcaggttcct  
6241 cctttgccag ttcaacagat gactggcct ggggtggggt ggtgtgtgat ggtgctgggy  
6301 ctgggtctc tccccctga ggtgtctat gttggccgaa acccaaagga cgtggcggtc  
6361 tctactacc atttccaccg tatggaaaag gcgcacctg agcctgggac ctgggacagc  
6421 ttcctggaaa agttcatggc tggagaaggt gggcttgact ggaggaagga ggggtgtgaag  
6481 ccgaggggtg gtggctataa cgtacagcaa ccctgtgtcg gtgccccctg cccgttctc  
6541 tactgtctca cgggtcctgg taccagcagc tgcaggagtg gtgggagctg agccgcaccc  
6601 accctgttct ctacctctc tatgaagaca tgaaggaggt gagaccgact gtgatgcttc

FIG. 7B

6661 ccccatgtg acacctgggg gcaggcacct cacagggacc caccaaggcc acccagcccc  
6721 gtccctgggc ggctcccaca gcaagcccg atccccatc ctacctccct ggcccaggcc  
6781 cccccactgc agccccacct ggcagcaggc tggcacagc ttctatcttc tgcacctgag  
6841 tcagctgcat ggggtggccac ggatcagata cttagtccta ttgcttatcc tcaccaaagj  
6901 gtgtgccacc cagggccaca gtcattggaag aagaccatcc cggctctcac ccataggcgc  
6961 caagccctgt tcatgatggg atcacagggc agagatcaat tcattttact cca,agacta  
7021 gggccccagg ggttgaggct ctttgggggt tctaggggaa gtggccagat cccctctgag  
7081 gttagagagg gggacccgtt ttgttttgct ccactgagga gccctctgct gctcagaaac  
7141 ccaaaagggg gattcaaaag atcctggagt ttgtggggcg ctccctgccg gaggagacca  
7201 tggacttcat gggtcagcac acgtcgttca aggagatgaa gaagaaccct atgaccaact  
7261 acaccaccgt cccccaaggc ctcatggacc acagcatctc ccccttcatg aggaagctg  
7321 ggtgctggcc agcacggggg tttggggcg gtgggagcag cagctgcagc ctccccatag  
7381 gcacttgggg cctccccctg gatgagactc cagctttgct ccctgccttc ctccccacg  
7441 catggctggg gactggaaga ccaccttcac cgtggcgagc aatgagcgct tcatgaggga  
7501 ctatgcggag aagatggcag gctgcagcct cagcttccgc tctgagctgt gagaggggct  
7561 cctggagtca ctgcagaggg agtggtgcga tctaccctga ccaatgggct caagaataaa  
7621 gtatgatttt tgagtcaggc acagtggctc atgtctgcaa tcccagcgat ttgggaggtt  
7681 gagctggtag gatcacaata ggccacgaat ttgagaccag cctggtaaaa tagtgagacc  
7741 tcatctctac aaagatgtaa aaaaattagc cacatgtgct ggcacttacc tgtagtccca  
7801 gctacttggg aagcagaggc tggaggatca tttcagccca ggaggttggt gatacagtga  
7861 gttatgacat gcccatcac tacagcctgg atgacaagca agaccctccc tccaaagaaa  
7921 ataaagctca attaaaataa aatatgattt gtgttcattg agagcctgta ttggaaagga  
7981 agagaaactc tgagctgaaa gagtgaatgc ccggtggggc cacatatggt cacctctccc  
8041 ccagccttca gctccccagg tcaccatata tggggagggg agaaggggtt ggagaagtaa  
8101 aaccaggag atgtgtggag ggggagtgct tgtttaatcc cagcacatcc tctgctgtcc  
8161 tgccccaaga tgggtggagga cgtcgagtcc gccgggcagc gtcacttttt cttgggctcc  
8221 ttagaagcta ccaggtacct ctgggccaca ctgagatgag gggagtagcc gcctgcatag  
8281 gaggtgtctt caaacaggat agtatagtcc ctccctgggg ttgtgggggt aggtggccaa  
8341 ggaagggtag aggagcaagc ccccggggct ggttgtcaac tcactttggt ggctggaatt  
8401 ggttgtaact tgaccacctc gggcaggatc ccactgctca tccccaa

FIG. 7C